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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/558,750

12/01/2005

Toivo Janhunen

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03/19/2008

BUCHANAN, INGERSOLL & ROONEY PC
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EXAMINER

WILSON, DEMARIS R

ART UNIT

PAPER NUMBER

1791

NOTIFICATION DATE

DELIVERY MODE

03/19/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

Office Action Summary	Application No. 10/558,750	Applicant(s) JANHUNEN, TOIVO	
	Examiner DEMARIS R. WILSON	Art Unit 1791	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 December 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>1/12/2007, 12/01/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abbott et al. <US 2004/0057046> in view of Montonen <US 5364436>. Abbott, regarding claims 1, 3, 5, 7, 9, and 10, discloses a system for imaging through measuring and detecting distortions (i.e. sag) of glass sheets wherein (see paragraphs [0004], [0005], [0041]-[0044] and [0082]

- i. Distortions (i.e. sagging) are measured with a CCD camera (i.e. a matrix camera) that feeds information (i.e. data), along with
- ii. A computer system to process the information (i.e. data), wherein
- iii. Stripes (i.e. points), being non-disturbing to the bending process, are detectable on the glass sheets by the camera.

It is considered that one of ordinary skill would appreciate having this information to control the progress in sag of a bending process. Furthermore, it is noted that one of ordinary skill would appreciate such an ability to measure distortion (i.e. sagging) in any glass bending process (i.e. press bending, sagging, etc.). Although Abbott discloses a method for measuring distortions (i.e. local curvature in an otherwise flat surface or, better yet, sagging) in glass sheets/panels (see paragraph [0046]), Abbott is silent on having glass

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panels on ring moulds inside a bending furnace. Nevertheless, Montonen teaches having a bending station (14) for sag bending due to gravity along with monitoring the bending (i.e. sagging) in a furnace (see column 3 lines 5-25). Therefore it is considered that it would have been obvious to one of ordinary skill in the art to use the teachings of Montonen for having a bending station for sagging of glass sheets in a furnace combined with Abbott method for measuring sagging of glass panels/sheets to control the degree of bending of the glass sheets during processing.

3. Regarding claim 2, it is considered that Abbott discloses a light source (i.e. pointer) that is provided along with Montonen's ring mould in said bending station to facilitate a camera operated measurement while having no effect on the bending process.

4. Regarding claims 4 and 8, it is considered that Abbott discloses applicable usage of laser beams for attaining measurement data (see paragraphs [0074] and [0082]). It notes that any signal along with a corresponding detector could be used to follow Abbott's preferred embodiment.

5. Regarding claims 6 and 11-13, it is considered that the lightbox and cameras are both over the conveyor width of Abbott's imaging system.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEMARIS R. WILSON whose telephone number is (571)272-6377. The examiner can normally be reached on 9-5 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571.272.1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Steven P. Griffin/
Supervisory Patent Examiner, Art Unit
1791

/D. R. W./
Examiner, Art Unit 1791
3/6/2008